

## **Abstract**

### **APPLYING DESIRED VOLTAGE AT A NODE**

To apply a desired voltage at a node driving a load impedance, a voltage source providing the desired voltage is connected to the node. In addition, a current source  
5 supplying an amount of current that would be drawn by the impedance if the voltage source alone were connected across the impedance. As a result, the voltage source may be freed substantially from supplying current, which may be advantageously used in several situations. For example, the approach can be used to connect a voltage source directly to a high load without potentially requiring a buffer between the voltage source and the node.

10 Alternatively, the approach can be used to apply the same desired voltage at each of multiple nodes connected in series using the same voltage source without being affected by the routing resistance generally present between each pair of the nodes.